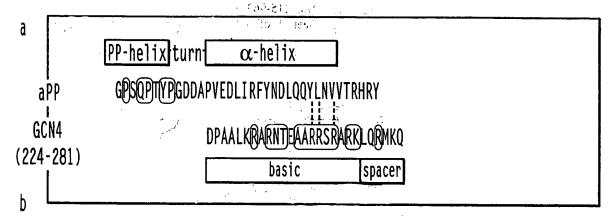






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| PPBROSR | GPSQPTYPGDDAPVEDLKRFRNTLAAYLSVVRKLQRMKQ | |
|-----------------|---|---------------------|
| PPBR10SR | GPSQPTYPGDDAPVEDLKRFRNTLAAYLSRLRKAARAAA | BINDING DETECTED |
| PPBR11SR | GPSQPTYPGDDAPVEDLKRFRNTLAARLSRLRKAARAAA | |
| ppBR2SR | GPSQPTYPGDDAPVEDLKRFRNTLAARRSRARKLQRMKQ | 5 nM |
| ppbr4SR | GPSOPTYPGDDAPVEDLKRFRNTLAARRSRARKAARAAA | 1.5 nM |
| G ₂₇ | DPAALKRARNTEAARRSRARKLQRMQC | 400 nM |
| PPBR4△SR | GPSOPTYPGDDAPVEDLKRFRNTLAARRSRLRKAARAAA | 1000 nM |

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LIBRARY LIBRARY B

LIBRARY A

MPSMPTMPGDDAPVEDLKRFRNTLAARRSRARKAA
LIBRARY B
GMSMXTMPGDDAPVEDLKRFRNTLAARRSRARKAA
PPBR4
GPSQPTYPGDDAPVEDLKRFRNTLAARRSRARKAA

| | ursyri | וויוו | IU! | IPV | EL | L | KF | KI | IIL | .AAK |
|----------|--------|-------|-----|-----|----|---|----|----|-----|------|
| © | PPBR4 | G | P | S | Q | P | T | Y | P | G |
| | | G | G | S | R | Å | Ţ | C | P | G |
| | | G | G | S | R | A | T | K | P | G |
| | | G | G | S | R | A | T | R | P | G |
| | p007 | G | G | S | R | A | Ī | M | P | G |
| | p012 | G | V | S | ٧ | G | T | R | P | G |
| | p011 | G | T | S | T | G | T | R | P | G |
| | p013 | G | ٧ | S | S | V | T | W | P | G |
| | | G | S | S | ٧ | E | Ţ | Q | P | G |
| | p009 | G | p | S | Ε | G | Ī | E | p | G |
| | p.016 | G | R | S | H | Q | Ţ | W | P | G |
| | • | G | G | S | Ε | ٧ | T | A | P | G |
| | | G | Q | S | Q | R | T | G | P | G |

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| BakLIB (20-36) | FIVIX | | X P I | DXÎ N R | # | Kd (nM) |
|-------------------|-------|-------|----------------|-----------|---|---------|
| 4100 | FVG | RILIL | RYFG | D E I N R | 6 | 401 |
| 4101 | FVG | RLLL | A Y <u>F</u> G | DDIN R | 2 | 811 |
| 4099 | FVG | RLL | A Y F G | DIINR | 3 | 352 |
| 4102 | FVS | R L - | RYIA | D L I N R | 2 | 3700 |
| | FVR | R L L | G Y I D | DIINR | 1 | |
| ā | FVL | R L L | WYIP | D G I N R | 1 | |
| | FVR | RUU | AAIM | DDIN R | 1 | |

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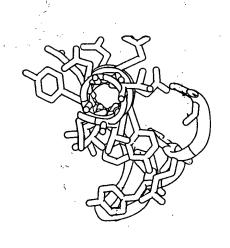
Table table in the control of the co

FIG. 5

| | PP-helix turn α -helix | |
|------------|---------------------------------|---------------------|
| | 1 8 17 2022 26 29 | |
| aPP | G SQ TY GDDAPVEDLIRFYDNLQQYLNVV | K _d (nM) |
| p53AD | ETFSDLWKLLP | 261 |
| LIBRARY #1 | G SQ TY GDDAPVEDLIRFXFXLXWYLLXX | |
| | LIRFQFTLCWYLLWT | |
| p3254 | LIRFQFALRWYLLPM | 334 |
| | LIRFQFSLSWYLLWG | |
| p3255 | LIRFQFGLGWYLLAM | 2800 |
| | LIRFQFTLRWYLLVT | |
| p3548 | LIRFQFPLRWYLLWA | 766 |
| | LIRFQFWLNWYLLWY | |
| p3559 | LIRFKFLLQWYLLAL | 99 |
| | LIRFRFPLRWYLLAL | |
| | LIRFRFQLGWYLLWF | |
| | LIRFSFALQWYLLTR | |
| p3527 | LIRFSFALQWYLLGE | 546 |

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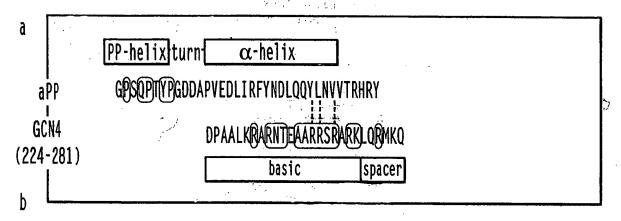
No. 1 No. 1

GCN4-DNA
GCN4-DNA
GCN4-DNA
GCN4-DNA
GCN4-DNA
GCN4-CONTAC
GRAFT)RESIDUES
REQUIRED FOR
RECOGNITION
ON/APP
ON/APP
SCAFFOLD
PP









| PPBROSR | GPSQPTYPGDDAPVEDLKRFRNTLAAYLSVVRKLORMKQ | NO NO |
|-----------------|---|---------------------|
| PPBR10SR | GPSQPTYPGDDAPVEDLKRFRNTLAAYLSRLRKAARAAA | BINDING DETECTED |
| PPBR11SR | GPSOPTYPGDDAPVEDLKRFRNTLAARLSRLRKAARAAA - | |
| ppBR2SR | GPSQPTYPGDDAPVEDLKRFRNTLAARRSRARKLQRMKQ | 5 nM |
| ppbr4SR | GPSQPTYPGDDAPVEDLKRFRNTLAARRSRARKAARAAA | 1.5 nM |
| G ₂₇ | DPAALKRARNTEAARRSRARKLQRMQC | 400 nM |
| PPBR4△SR | GPSQPTYPGDDAPVEDLKRFRNTLAARRS PLRKAARAAA | 1000 nM |

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LIBRARY LIBRARY LIBRARY B

LIBRARY A

XPSXPTXPGDDAPVEDLKRFRNTLAARRSRARKAA
LIBRARY B

GXSXXTXPGDDAPVEDLKRFRNTLAARRSRARKAA
PPBR4
GPSQPTYPGDDAPVEDLKRFRNTLAARRSRARKAA

| G G S R A T C P G G G S R A T K P G G G S R A T R P G P007 G G S R A T M P G P012 G V S V G T R P G P013 G V S S V T W P G G S S V E T Q P G P016 G R S H Q T W P G G G S E V T A P G G G S E V T A P G | | Graup I | 1160 | UΑ | rv | ΕIJ | LK | Kŀ | KN | IL | .AAKI |
|---|---|---------|------|----|----|-----|----|----|----|----|-------|
| G G S R A T K P G G G S R A T R P G P007 G G S R A T M P G P012 G V S V G T R P G P013 G V S S V T W P G G S S V E T Q P G P009 G P S E G T E P G P016 G R S H Q T W P G | © | PPBR4 | G | P | S | Q | P | T | Y | P | G |
| G G S R A T R P G P007 | | · | G | G | S | R | A | T | С | P | G |
| p007 G G S R A T M P G p012 G V S V G T R P G p011 G T S T G T R P G p013 G V S S V T W P G G S S V E T Q P G p009 G P S E G T E P G p016 G R S H Q T W P G G G S E V T A P G | | | G | G | S | R | A | T | K | P | G |
| p012 | | | G | G | S | R | A | T | R | P | G |
| p011 | | p007 | G | G | S | R | A | Ī | M | P | G |
| P013 G V S S V T W P G G S S V E T Q P G P009 G P S E G T E P G P016 G R S H Q T W P G G G S E V T A P G | | p012 | G | V | S | V | G | Ī | R | P | G |
| G S S V E T Q P G p009 | | p011 | G | Ţ | S | Ţ | G | T | R | P | G |
| p009 | | p013 | G | V | S | S | V | Ţ | W | P | G |
| p016 GRSHQTWPG GGSEVTAPG | • | | G | S | S | ٧ | Ε | T | Q | P | G |
| GGSEVTAPG | | p009 | G | P | S | E | G | Ī | Ε | P | G |
| | | p016 | G | R | S | H | Q | Τ | W | P | G |
| GQSQRTGPG | | | G | G | S | E | ٧ | Τ | A | Р | G |
| | | | G | Q | S | Q | R | T | G | P | G |

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| BakLIB (20-36) | F | | X | R | | | X | P | I | X | 0 | X | Î | N | R | # | Kd (nM) |
|-------------------|---|---|---|---|---|---|---|---|----------|---|---|---|---|---|---|---|---------|
| 4100 | F | / | G | R | L | L | R | γ | E | G | D | E | Ι | N | R | 6 | 401 |
| 4101 | F | / | G | R | L | L | A | γ | <u>F</u> | G | D | D | I | N | R | 2 | 811 |
| 4099 | F | / | G | R | L | L | A | Υ | F | G | p | Ţ | Ι | N | R | 3 | 352 |
| 4102 | F | | S | R | L | - | R | Υ | I | A | D | L | I | N | R | 2 | 3700 |
| | F | / | R | R | L | L | G | Υ | I | D | D | I | I | N | R | 1 | |
| · | F | | L | R | L | L | W | Υ | I | P | D | G | I | N | R | 1 | r |
| | | | R | R | L | L | V | Y | I | W | D | D | I | N | R | 1 | |

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| | PP-helix turn α-helix | |
|------------|---------------------------------|---------------------|
| | 1 8 17 2022 26 29 | |
| aPP | G SQ TY GDDAPVEDLIRFYDNLQQYLNVV | K _d (nM) |
| p53AD | ETFSDLWKLLP | 261 |
| LIBRARY #1 | G SQ TY GDDAPVEDLIRFXFXLXWYLLXX | |
| | LIRFQFTLCWYLLWT | |
| p3254 | LIRFQFALRWYLLPM | 334 |
| | LIRFQFSLSWYLLWG | |
| p3255 | LIRFQFGLGWYLLAM | 2800 |
| | LIRFQFTLRWYLLVT | |
| p3548 | LIRFQFPLRWYLLWA | 766 |
| | LIRFQFWLNWYLLWY | |
| p3559 | LIRFKFLLQWYLLAL | 99 |
| | LIRFRFPLRWYLLAL | |
| | LIRFRFQLGWYLLWF | |
| | LIRFSFALQWYLLTR | |
| p3527 | LIRFSFALQWYLLGE | 546 |

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FIG. 6



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